

Diarium Planetarum:

O R, A N

E P H E M E R I S

F O R T H E

Year of our Redemption, 1690.

Being the Second after

Bissextile or Leap-Year,

A N D

From the World's Creation, 5639.

Amplified with Observations of Eclipses,
Conjunctions, and other Configurations
of the Heavenly Bodies.

And Tables useful for their Majesties Offi-
cers of **EXCISE**.

And also Tables of Allowance for Com-
mon **BREWERS**.

Calculated for the Meridian of the Ancient City
of **CANTERBURY**, where the Arctic
Pole is Elevated above the Horizon 51. deg.
25. min. and may indifferently serve for Eng-
land, Scotland and Ireland.

By **NICHOLAS GREENWOOD**,
Student in Physick and Astronomy.

*Si quis Animas & Corpora humana fatalibus Stellis credit a-
stringi, sicut Pagani & Priscillianus dixerunt Anathema sit.*

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pany of Stationers. 1690.



Common Notes for the Year 1690.

The Golden Number 19.
The Cycle of the Sun 19.

The Dominical Letter E.

The Epact 29.

The Roman Indiction 13.

Septuagesima, February 16.

Ash Wednesday, March 5.

Easter Sunday, April 29.

Rogation Sunday, May 25.

Holy Thursday, May 29.

White Sunday, June 8.

Trinity Sunday, June 15.

Advent Sunday, Novemb. 30.

The Beginning and Ending of the Terms.

Hilary Term begins Jan. 23. ends Feb. 12.

Easter Term begins May 7. ends June 2.

Trinity Term begins June 20. ends July 9.

Michaelmas Term begins October 23. ends November 28.

Venus is our Lucifer, or Morning-Star, till the 6 of April: then passing her Conjunction with the Sun, becomes Occidental, or our Evening-Star, to the End of the Year.

NICHOLAS GREENWOOD

LONDON

The Names and Characters of the Seven Planets.

♄ Saturn, ♃ Jupiter, ♀ Mars, ☉ Sol, ♀ Venus,
 ☿ Mercury, ♃ Lucas, ♀ Dragon's Head, ♀ Dragon's
 Tail.

The Names and Characters of the Aspects.

☿ Conjunction, ✱ Sextile, ☐ Quartile, △ Trine
 & Opposition.

The Dominion of the Moon in Mans's Body, as she passeth through the 12 Constellations.

♈ Aries, Head and Face.

♉ Taurus, Arms
 and Breast.

♊ Cancer, Breast
 Stomach and Ribs.

♋ Virgo, Breasts and
 Belly.

♌ Scorpio, Secret
 Members.

♍ Capricorn, Knees.



♊ Gemini, Arms
 and Shoulders.

♌ Leo, Heart and
 Back.

♎ Libra, Reins and
 Loins.

♏ Sagittari, Thighs.

♐ Aquarius, Legs.

♑ Pisces, the Feet.

The Regal Table.

From the time of **WILLIAM** the Conqueror to this present Year, 1690.

Kings Names.	Began their Reien.	Kings Names.	Began their Reien.
1 William Con.	1067 20	Line of York.	
2 William Ruf.	1087 13	16 Edward IV.	1460 23
3 Henry I.	1100 30	17 Edward IV.	1463 24
4 R. Stephen.	1135 19	18 Richard III.	1483 2
Sixth Line Reft.		Families united.	
5 Henry II.	1154 68	19 Henry VII.	1485 24
6 Richard I.	1189 10	20 Henry VIII.	1508 40
7 King John.	1199 10	21 Edward VI.	1547 6
8 Henry III.	1216 10	22 Q. Mary.	1553 5
9 Edward I.	1272 15	23 Q. Elizabeth	1558 44
10 Edward II.	1312 16	Kingdoms united.	
11 Edward III.	1327 1	James I.	1602 22
12 Richard II.	1377 22	Charles I. M.	1625 24
Line of Lancaster.		Charles II.	1648 37
13 Henry IV.	1399 14	James II.	1684 3
14 Henry V.	1413 9	8 William III.	1689 1
15 Henry VI.	1422 30	and Q. Mary.	
		<i>Vivant Vigant</i>	
		<i>juvant.</i>	

Our Glorious Race of Kings you here may view,
 The Valiant *Edwards* and *Bat'd Henries* too;
 Whose Warlike Acts made swelling *France* to yield,
 While still the Scales of *Christendom* they held.
 The Warlike *Rom* ascends in *England's* Scheme,
 And *Mars* or *Mars* his Sons must govern them.

A Table shewing by the Moon's Age the time of High-water,

1. At London, 2. Gravesend and the Downs, 3. Rochester
and Malden, 4. Queenborough, Portsmouth, & the Spit, in Hours and Minutes. .noon 12 10 20

Moon's Age	London.	Gravesend and the Downs.	Rochester and Malden.	Queenborough, Portsmouth, & the Spit.
Days	h.	m.	h.	m.
1	163	482	18	33
2	174	363	62	21
3	185	243	543	19
4	196	124	423	57
5	207	005	304	44
6	217	486	185	32
7	228	367	66	21
8	238	247	547	19
9	249	128	427	57
10	259	008	308	44
11	261	489	189	32
12	2712	361	610	21
13	281	241	5411	19
14	292	1212	4211	57
15	303	00123	3012	44

The Explanation of the Table.

The first Column is the Moon's Age, the second the Hour and Minute, when it is High-water at London, and of the rest, as it is noted in the Head of the Column.

A Table
of the Eclipses of the Luminaries which happen
this Year, 1690.

There will be Four Eclipses, Two of the Sun, and
Two of the Moon.

The First will be an Eclipse of the Sun, on *February* the Twenty Eighth day, about Eleven at Night. It is Celebrated in Twenty Two Degrees of *Pisces*; but will be to us invisible; But to our *Antipodes* it will appear a Great Eclipse, the Sun being then near their Meridian.

The Second will be an Eclipse of the Moon, on *March* the Fourteenth, about Ten at Night. It happens in the Fifth Degree of the Coelestial Ballance, and will be visible to us in *England*.

The Third is an Eclipse of the Sun, on the Twenty Fourth day of *August*, about One a Clock in the morning. It is celebrated in the Eleventh Degree of *Virgo*, and will be a very great Eclipse; but invisible to us.

The Fourth will be an Eclipse of the Moon, on *September* the Eighth, about Two of the Clock after Noon. It happens in the Twenty Sixth Degree of *Pisces*; but invisible to us.

On *November* the Twentieth, this year, will be celebrated a Famous Conjunction of *Saturn* and *Mars*, in the Twenty Third Degree of *Scorpio*. Such a Conjunction preceded the *Sweating Sickness*.

ADVERTISEMENT.

BATEMAN'S Spirit of *Scurvy-Grass*,
Famous for the Cure of the *Scurvy*, *Gout*,
Dropsie, and most other Chronical Diseases,
continues to be truly Prepared and Sold, at
the House where Mr. *Bateman* dwelt, in *Pauls-
Church*, near *Doctors-Commons*, by the Persons
to whom he only entrusted that *Secret*, Seal-
ed as formerly, with the Half Moon and
Ermins, to prevent Counterfeits. Price 1 s.
a bottle.

At the same place is to be sold, by *Hooker*, the truly prevailing *Elixir* *Salutiferum*, Eradicating and subduing the most dangerous Diseases incident to the Body of Man; As being an Universal Medicine, agreeing with all Complexions, Constitutions and Ages of both Sexes; and for that purpose more Elaborately Prepared and Rectified than any other *Elixir* going by that Name, with Printed Directions for taking it, put up in Half-Pint Bottles. Price, in London 10. and Forty Mils about; and 2 s. 6 d. in more distant places.

January bath XXI-days

First Quarter the 8 day, 4 in the morning.

Full Moon the 14 day, nine at night.

Left Quarter the 22 day, 9 in the morning.

New Moon the 30 day, 8 in the morning.

[illegible]

[illegible]

February hath XXVIII days. CQDI

First Quarter the 6 day, 1 afternoon.
 Full Moon the 12 day at 8 in the morning.
 Last Quarter the 21 day, 4 in the morning.
 New Moon the 28 day, 11 at night.

Saints Days. Lunar Aspects.

		☉	☽	☿	♂	♀	♂	♀	♂	♀
1										
2	Candlemas.	23	19	19	Δ	*				
3		24	20	20	Υ		*			
4		25	21	21	*					
5	Gilbert Con.	26	22	22	19	*				
6	Agathi.	27	23	23	8	17	6	20		
7	Zacharias.	28	24	24	8	17	6	20		
8		29	25	25	II	58	1	20	Δ	
9	6 aft. Epiph.	30	26	26	Δ					
10		31	27	27	38	8	Δ			
11		32	28	28	3	13	10	*		
12	Term Ends	33	29	29	Ω	22	□	0	8	
13		34	30	30	8	15	□	20		
14	Valentine	35	31	31	14	20	*	8	6	
15		36	32	32	15	8	10	Δ		
16	Septuages.	37	33	33	12		12			
17		38	34	34	6					
18		39	35	35	Δ					
19		40	36	36	53	21	Δ			
20	Mildred?	41	37	37	57					
21		42	38	38	43	16				
22		43	39	39	39					
23	St. Agatha.	44	40	40	32	*	*	*		
24	St. Matthias	45	41	41	8					
25		46	42	42	3	□	8	19		
26		47	43	43	42					
27	Legende B.	48	44	44	39	□	6			
28		49	45	45	54	Δ	6			
29		50	46	46						
30		51	47	47						
31		52	48	48						

1690.

The Planets
Places every
5th day.

17	50	3	17	20	30	7	13	10	42	28
6	17	55	10	22	23	7	13	10	42	28
11	17	58	11	34	25	44	19	27	19	7
16	17	58	12	45	28	32	26	40	25	43
21	17	56	13	58	1	22	2	53	2	27
26	17	51	15	11	4	12	9	6	28	27

17	15	4	45	4	36	D	♂.	Violent
27	14	4	46	5	24			Storms in
37	13	4	47	6	12			the month.
47	11	4	49	7	6			the month.
57	10	4	50	7	48	♂	♀	Piercing
67	9	4	51	8	36			Winds and
77	8	4	52	9	24	D	Perig.	Frost.
87	6	4	54	10	12			
97	4	4	56	11	0			Cold
107	2	4	58	11	48	♂	♀	Rain
116	1	4	1	12	36	♂	♀	or Snow.
125	0	4	2	13	24			
135	0	5	4	14	12	D	♂.	
145	0	5	5	15	6			
155	0	5	6	16	48			Wind and
166	0	5	7	17	36			showers
176	0	5	9	18	24	♂	♀	
186	0	5	11	19	12	♂	♀	hierce.
196	0	5	14	20	0			
206	0	5	17	21	48	D	Apog.	
216	0	5	18	22	36	♂	♀	Clearing
226	0	5	20	23	24			wholesome
236	0	5	22	24	12			Frost with
246	0	5	25	25	0	♂	♀	some Snow
256	0	5	28	26	48	♂	♀	towards
266	0	5	30	27	36			
276	0	5	32	28	24			
286	0	5	34	29	12	♂	♀	Eclipsed invisibly

March 1881. Days. 0007

First Quarter the 7 day, 9 at night.
 Full Moon the 14 day, 10 at night.
 Last Quarter the 22 day, 11 at night.
 New Moon the 30 day, 10 morning.

Calendar Days		☉		☽		Lunar Aspects			
		X		X		☉	☽	♂	♀
1	David	21	38	28	27			*	
2	Shrove Sun.	22	31	12	14			8	
3	Shrove Tue.	23	31	26	13				
4	Shrove Wed.	24	31	10	21	8	*	*	*
5	Alth-wednes.	25	30	24	32	12	10	10	22
6	St. Patrick.	26	30	8	44	2	14	10	22
7	St. John.	27	29	22	55	14	19	19	22
8		28	29	7	29	Δ			Δ
9	Quadrage.	29	28	20	56	Δ	Δ	Δ	23
10	Rain	30	28	5	4	16	18	*	4
11		1	27	18	54	21	10	10	11
12	Gregory.	2	27	2	33		18	18	12
13		3	26	16	2	*	18	18	13
14		4	25	29	18	3	18	18	14
15	(Lent.	5	25	12	18	10	3	3	15
16	Sund. in	6	24	25	9		3	3	16
17		7	23	7	32	Δ	Δ	Δ	17
18		8	22	19	48	Δ	Δ	Δ	18
19	Joseph.	9	21	1	51	Δ	Δ	Δ	19
20		10	20	13	47	Δ	Δ	Δ	20
21	Emasiodw	11	19	25	40		14	14	21
22	(Lent.	12	18	7	32	Δ	Δ	Δ	22
23	Sund. in	13	17	19	27	Δ	Δ	Δ	23
24		14	16	1	24		12	12	24
25		15	15	12	56	*	Δ	Δ	25
26		16	14	26	35	2	12	12	26
27		17	13	9	38	Δ	Δ	Δ	27
28		18	12	23	4	Δ	Δ	Δ	28
29		19	11	6	54	Δ	Δ	Δ	29
30		20	9	21	72		*	20	30
31		21	8	5	23				31

1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700
The Planets	17	47	55	55	54	12	58	27	18	27
Places every	17	38	17	08	44	10	32	47	27	27
th day.	11	17	27	18	19	14	30	25	17	18
	26	17	14	19	29	14	31	1	25	16
	21	16	59	20	30	17	26	7	42	16
	26	16	43	21	49	20	21	12	55	16
16	23	37	3	0	D	A	Comet			
26	20	40	3	High	48		The beginning.			
36	18	42	4		36					
46	16	44	5		24					
56	14	46	6	Water	12					
66	11	49	7		0		Perig.	raise		
76	9	51	7		48			show		
86	7	51	8		36					
96	5	55	9		24					
106	3	57	10	London	12					
116	1	59	11		0					
125	59	1	11		48					
138	57	3	12		36					
145	50	4	1		24					
155	54	6	2		12					
165	52	8	3		0					
175	50	10	4		48					
184	48	12	4		36					
195	46	14	5		24					
205	44	16	6		12					
215	42	18	7		45					
225	40	20	8		30					
235	39	21	9		16					
245	37	22	10		0					
255	36	24	10		48					
265	34	26	11		36					
275	32	28	12		24					
285	30	30	1		12					
295	28	32	2		12					
305	26	33	3		0					
315	24	36	3		48					

April hath XXX days

First Quarter the 5 day, 3 in the morning.
 Full Moon the 13 day, 1 afternoon.
 Last Quarter the 21 day, 4 afternoon.
 New Moon the 28 day, 7 at night.

Saints Days		☉ Y		☽ D		Lunar Aspects.					
						☉	☽	☿	♂	♀	♂
1	Theodore.	22	7 20	9		♂	*			*	
2		23	5 4	II 46			6				7
3	Christian.	24	4 19	20 *		☐	♂	*	☐		
4		25	2 3	☾ 43 9		Δ	7	10	7	11	
5	(Lent.	26	1 17	54 ☐		20	Δ			☐	Δ
6	Sund. in	26	59 1	♂ 48 15		11					19
7		27	58 15	31		☐		*			
8		28	56 28	58 Δ		1		23	Δ		
9	Albinus.	29	55 12	13 0		*			2		
10		0	53 25	19		7	8	☐		8	
11		1	52 8	12		0	8				18
12	Julius.	2	50 20	54				Δ			
13	Palm Sund.	3	48 3	26	♂	♂		20	♂		
14		4	46 15	46 1		43	Δ		6		
15		5	44 27	58			21				
16		6	42 10	7 0							Δ
17		7	40 21	58				☐			5
18		8	39 3	50 Δ	*		10	8	Δ		
19		9	37 15	42 10	23	*	0	30	☐		
20	Easter day.	10	35 27	38			23			4	
21		11	33 9	42	☐	☐					
22		12	31 21	59 4	10				14	*	
23		13	29 4	39 *	Δ			Δ			
24		14	26 17	36 18	18	♂	15	*			
25	St. Mark.	15	24 1	4			18	☐	4		
26		16	22 14	59				13			
27	Low Sund.	17	20 29	22				*			
28	Vitalis.	18	18 14	10	♂	8			17	♂	
29		19	16 29	11	7	0	*			17	
30		20	13 14	II 14		0					

DA

	11	08	21	23	11	23	54	21	21	23	43	25
The Planets	6	16	1	24	17	26	52	27	31	29	12	26
Places every	11	05	40	25	23	29	51	3	30	15	34	25
5th day.	16	15	18	26	27	29	50	9	51	14	45	24
	21	14	56	27	28	5	49	16	120		45	24
1800 A 18	26	14	36	28	29	8	48	22	21	29	29	24

Year	Sun's	High	Water at London	Baker.	Remarks
1705	186	425	48	0	begins with Storms as the other ended.
1706	168	446	12	0	Perigean.
1707	146	467	0	0	More
1708	126	487	48	0	temperate
1709	106	508	36	0	with
1710	76	539	24	0	pleasing
1711	46	5610	12	0	
1712	26	5811	0	0	U. April
1713	07	011	48	0	Showers.
1714	587	212	36	0	
1715	577	31	24	0	Seasonable
1716	557	52	48	0	Weather
1717	537	73	36	0	till
1718	527	84	24	0	
1719	507	105	12	0	Apog. toward
1720	487	126	0	0	the latter
1721	467	146	48	0	end;
1722	447	167	36	0	♂ ♀
1723	427	188	24	0	
1724	407	209	12	0	And
1725	397	2110	0	0	then
1726	377	2310	48	0	♂ ♀ expected
1727	357	2511	36	0	much
1728	337	2712	24	0	unseasonable
1729	317	291	12	0	Rain, and
1730	297	312	0	0	Easterly
1731	277	332	48	0	Winds, Blasts
1732	257	353	36	0	
1733	237	374	24	0	

1	29	12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522
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[illegible]

June hath XXXI days

First Quarter the 7 day, 7 at night.
 Full Moon the 11 day, 6 at night.
 Last Quarter the 19 day, 6 at night.
 New Moon the 26 day, 8 morning.

Saints Days.		☉		☽		Lunar Aspects.	
		☉	☽	☉	☽	☉	☽
1	Asc. Easter	20	50	22	22	1*	
2	Term ends.	21	47	5	44	*	*
3		22	44	19	1	□	
4		23	41	1	57	7	*
5		24	38	14	36	△	6
6		25	36	27	0	21	
7		26	33	9	13		13
8	Whit Sund.	27	30	21	22		6
9		28	27	31	23	△	△
10		29	24	15	22	4	4
11	St. Barnabas	30	21	27	18	8	□
12		1	18	9	13	6	17
13		2	15	25	9		
14		3	12	3	6	□	* 8
15	Trinity Sun	4	9	15	7	6	11
16		5	6	27	15	△	
17		6	3	9	34	17	△
18		7	0	21	8		
19		7	57	5	0	□	♂ △
20	Term begin	8	55	18	13	6	3 13
21		9	52	30	59	*	□
22	Asc. Trid.	10	48	16	13	14	19
23		11	46	0	53		*
24	St. John Bapt.	12	43	13	58		10 22
25		13	40	11	14	♂	△
26		14	37	16	33	2	10
27		15	34	28	42	♂	△
28		16	31	10	55		10 0
29		17	28	0	55	*	1
30		18	25	12	49	*	17

[illegible]

July hath XXXI days.

CCXI

First Quarter the 7 day, 7 in the morning.
 Full Moon the 11 day, 10 in the morning.
 Last Quarter the 19 day, 2 in the morning.
 New Moon the 25 day, 5 at night.

Saints Days		☉		☽		Lunar Aspects					
						☉	☽	☿	♄	♃	♂
1	a	19	22	20	13		8				
2	a	20	19	11	12	☐	16	*	*		
3	b	21	17	23	50	19	17				
4	c	22	14	6	10						
5	d	23	11	18	20	Δ	10				
6	e	24	8	1	20	11	Δ	6			
7	f	25	5	12	18		14	Δ			
8	g	26	2	24	12		22				
9	a	26	59	6	7		*	☐			
10	b	27	57	18	2	☉	10	3			
11	c	28	54	0	3	22	*				
12	d	29	51	12	8		23	14			
13	e	0	48	24	18						
14	f	1	46	6	37		Δ				
15	g	2	43	19	7		9				
16	a	3	40	1	49	Δ	☉				
17	b	4	37	14	47	4	11				
18	c	5	35	28	3	☐	☉				
19	d	6	32	11	10	14	23				
20	e	7	29	25	10	*	*	☐			
21	f	8	29	19	4	20	18	9			
22	g	9	23	24	8		☐	*			
23	a	10	21	9	47		Δ	20	13		
24	b	11	19	24	52		4	Δ			
25	c	12	16	9	53	☉	☐	19			
26	d	13	14	24	42	5					
27	e	14	11	9	7		*				
28	f	15	9	43	8		5				
29	g	16	6	6	41	*	☉				
30	a	17	4	19	47	19					
31	b	18	1	2	29		☉	*			

1690.	h	m	s	h	m	s	h	m	s	h	m	s
g. 10. 10. 10.	41	19	7	12	19	9	11	4	3	R.	53	21
The Planets	41	18	7	22	22	14	17	46	1	43	20	20
Places every	11	D. 20	7	32	25	21	23	4	28	31	20	20
5th day.	26	11	25	7	32	28	20	19	55	25	34	29
	21	11	31	7	R. 30	1	38	5	39	24	D. 8	19
	26	11	41	7	22	4	47	11	44	25	4	19
	57	8	37									
3	57	8	37	High	48							
3	58	8	28		36							
3	59	8	19		24							
	5	10	12									
4	59	11	0									
4	57	11	48									
8	55	12	36									
	47	55	24									
10	67	54	12									
4	87	52	0									
12	97	51	48									
12	107	50	36									
12	117	49	24									
12	127	47	12									
4	147	46	0									
12	157	45	48									
12	167	44	36									
12	177	43	24									
12	187	42	12									
12	207	40	0									
12	217	39	48									
12	227	38	36									
12	257	35	24									
4	277	3	12									
12	297	3	0									
12	327	28	48									
12	347	26	36									
12	367	24	24									
12	377	23	12									
12	387	22	0									

Fine
seasonable
weather.

till
about
the
Apog. the
middle,

and then
expect
Storms,
Thunder
and Rain.

4. Clearing
warm
weather.

Perig.

Dark
Clouds
and
Thunder.

B 3

August hath XXXI days.

10001

First Quarter the 7 day, 8 at night.
Full Moon the 9 day, 12 at night.
Last Quarter the 17 day, 8 morning.
New Moon the 24 day, 1 morning.

Saints Days.		Lunar Aspects.							
1	Lammast.	18	59 14	52	□	6	*	*	
2		19	56 27	08			Δ	8	Δ
3	7 aft. Trin.	20	54 8	0			22	□	
4		21	52 20	53	Δ		4	□	
5		22	49 2	45	*	□	Δ	2	
6	Sixtus.	23	47 14	40		10	8	18	Δ
7		24	45 26	37			*		04
8		25	43 8	44	□		20		
9		26	40 11	18	7				
10	8 S. aft. Trin.	27	38 3	22	12	Δ		8	
11		28	36 15	19			22		
12	Clara.	29	34 28	46		6		6	
13		30	32 11	48		15	6		Δ
14		1	30 25	0	Δ				
15	Assum. V.M.	2	28 8	26	12	5		Δ	
16		3	26 22	7	□	8		16	Δ
17	9 aft. Trin.	4	24 6	3	20	*	□	25	
18	Helena.	5	22 20	11		0	22	*	
19		6	20 4	34	*	Δ	□		□
20		7	18 19	74		2	*	6	
21		8	16 3	46	□	Δ	34	*	
22		9	14 18	22	15	3			
23		10	12 2	52	6	*			6
24	St. Barthol.	11	11 17	11	13	17	6		10
25		12	9 1	6		8	11		
26	D. days End.	13	7 14	38		8		6	
27		14	5 27	48					
28	Decol. J. B.	15	4 10	34	*	6			*
29		16	2 23	3	10	6	Δ	*	
30		17	1 5	13		22	7		
31	11 aft. Trin.	18	59 17	12	□				

1690.	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
The Planets	5	12	8	6	48	18	4	24	2	3	4	44	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																																																																																																																																																									

September hath XXXI days.
 Full Moon the 8 day, 2 afternoon.
 First Quarter the 15 day, 3 afternoon.
 New Moon the 22 day, 1 afternoon.
 Last Quarter the 30 day, 9 morning.

Days		☉		☽		Lunar Aspects							
		☉	☽	☉	☽	☉	☽	☉	☽	☉	☽	☉	☽
1	St. Stephen	18	58	29	4			☐	☐	*			
2	Veronica	19	58	10	56	Δ	*	10					
3	Wolfe	20	55	22	49	20	6	*	Δ	☐	Δ		
4	Theodosius	21	53	4	48			☐	22	10			
5		22	52	16	57								
6		23	51	29	20								
7	St. Trinitie	24	49	11	59			Δ					
8	Nat. V. M.	25	48	24	53	☽		☽					
9		26	47	5	4	2		15	16				
10		27	46	21	30								
11	Theobald	28	44	5	9								
12		29	43	18	57	Δ	16	*					
13		0	42	2	57	10		23	Δ				
14	13 aft. Trin.	1	41	16	58				7				
15	Holy Cross	2	40	1	3	☐		☐	☐	Δ			
16		3	39	14	13	3	Δ	3	12				
17	Lambert	4	38	29	24	*		Δ	*				
18		5	37	13	34			☐		16			
19	Januarius	6	36	27	41								
20		7	36	11	42	*							
21	St. Matthew	8	35	25	35			☽					
22		9	34	9	13	6		10	6				
23		10	33	22	36								
24	Rupert	11	32	5	41								
25		12	32	18	27	20							
26	Cyprian	13	32	0	55			Δ	*				
27		14	31	13	8	*		☐					
28	15 aft. Trin.	15	30	25	93			☐					
29	St. Michael	16	30	7	0	*	11	☐					
30		17	29	18	50	20		21					

1690

The Planets
Places every
day.

15	24	12	28	28	21	15	9	17
16	25	13	29	29	22	16	10	18
17	26	14	30	30	23	17	11	19
18	27	15	31	31	24	18	12	20
19	28	16	1	1	25	19	13	21
20	29	17	2	2	26	20	14	22
21	30	18	3	3	27	21	15	23
22	31	19	4	4	28	22	16	24
23	1	20	5	5	29	23	17	25
24	2	21	6	6	30	24	18	26
25	3	22	7	7	31	25	19	27
26	4	23	8	8	1	26	20	28
27	5	24	9	9	2	27	21	29
28	6	25	10	10	3	28	22	30
29	7	26	11	11	4	29	23	31
30	8	27	12	12	5	30	24	1
31	9	28	13	13	6	31	25	2

Day	Sign	Hour	High	Low	Notes
1	Aries	376	239	24	High wind
2	Taurus	406	2010	12	Apog
3	Gemini	426	1811	0	and showers
4	Cancer	446	1611	48	by coast
5	Leo	456	1512	36	
6	Virgo	476	131	24	
7	Libra	496	112	12	Stormy
8	Scorpio	506	103	0	Eclipsed
9	Sagittarius	516	93	48	temperament
10	Capricorn	536	74	36	weather
11	Aquarius	556	55	24	for the most
12	Pisces	586	36	12	part of the
13	Aries	05	17	0	month
14	Taurus	25	587	48	till
15	Gemini	45	568	36	till
16	Cancer	65	549	24	Perig
17	Leo	85	5210	12	the
18	Virgo	105	5011	0	end
19	Libra	125	4811	48	
20	Scorpio	145	4612	36	
21	Sagittarius	165	441	36	and
22	Capricorn	185	422	48	then
23	Aquarius	205	403	48	
24	Pisces	225	384	36	Rains
25	Aries	245	365	24	and
26	Taurus	265	346	12	violent
27	Gemini	285	327	0	Showers
28	Cancer	305	307	4	
29	Leo	325	288	36	Apog
30	Virgo	345	269	24	

October hath XXXI. days.

Full moon the 8 day, 3 morning.
 Last quarter the 14 day, nine at night.
 New moon the 22 day, 2 in the morning.
 First quarter the 30 day, 6 in the morning.

Days		☉		☽		Lunar Aspects					
						☉	☽	☿	♂	♀	♂
1	Remigius	18	20	0	41	~	*		*		
2	Woolf. Em.	19	20	32	38	△	☐	☐	△	☐	
3		20	28	24	49	14	9		15	☐	
4	Iran. Vir.	21	28	7	14	△			15	☐	
5	16 aft. Trin.	22	28	20	0						
6	Ysidor	23	27	3	9		17		△		
7	Isidore	24	27	16	39				8	1	
8		25	27	0	21	15			11		
9	Denis	26	27	14	39						
10	Thomas	27	27	28	58	6	*		8	☐	
11	John	28	27	13	4				1	△	18
12	17 aft. Trin.	29	27	27	46	△	☐	☐	☐	☐	
13		30	27	12	5	4	△		3		
14		1	27	26	14	☐			△	☐	
15	W. Gilbert	2	27	10	15	9	☐		5	1	△
16	Lucian	3	27	24	6	*	☐		*	☐	
17		4	27	7	49	17	*		8	☐	
18	St. Luke	5	27	21	22						
19	18 aft. Trin.	6	27	4	47				13		
20		7	28	18	2				*		
21		8	28	1	6	☐			☐	5	
22		9	28	13	55	15	☐		1		
23	Terence begins	10	28	26	32		△				
24		11	28	8	36						
25	Crispin	12	29	21	6		☐		☐		
26	19 aft. Trin.	13	29	3	7	*			14	*	
27	St. Woolf	14	30	14	59	23			4		
28	St. Kim & Jude	15	30	26	48	☐	*	☐			
29		16	31	8	39	☐			21		
30		17	31	20	34	18				☐	
31		18	30	2	41		△	*			

1	18	56	61	19	18	82	21	11	6	16
2	17	22	29	44	21	29	31	2	8	16
3	17	57	29	12	24	54	9	50	2	15
4	16	18	31	28	45	28	18	16	57	16
5	21	19	7	28	21	11	43	21	37	47
6	20	19	42	26	35	8	27	6	28	28

Day	Surf	Rating	Sun's Setting	High Water at London	Low Water at London	Remarks
1	36 5		24 10	12		Rainy weather begins the month.
2	38 5		22 11	0		
3	40 5		20 11	48	Δ	♀.
4	42 5		18 12	36		For first week
5	44 5		16 1	24	Δ	♂. Moon
6	46 5		14 2	12	♂	♀. Cold
7	48 5		12 3	0		Rain
8	50 5		10 3	48		or
9	52 5		8 4	36		Snow.
10	54 5		6 5	24		
11	56 5		4 6	12		
12	58 5		2 7	0		
13	60 5		0 7	48	Δ	Perig.
14	62 5		58 8	36		
15	64 5		56 9	24		Clearing Wind
16	66 5		54 10	12		and
17	68 5		52 11	0		white
18	70 5		50 11	48	Δ	♀. Frosts.
19	72 5		48 12	36		
20	74 5		46 1	24		
21	76 5		44 2	12		
22	78 5		42 3	0		Dark
23	80 5		41 3	48		Mists,
24	82 5		40 4	36		or
25	84 5		38 5	24		Rain,
26	86 5		36 5	12	Δ	♀. and
27	88 5		34 7	0	Δ	Apog. cloudy
28	90 5		32 7	48		weather
29	92 5		30 8	36		ends the
30	94 5		28 9	24		
31	96 5		27 0	12	♂	♂. month.

November hath XXX days.

Full Moon the 6 day at 3 in the afternoon.
 Last Quarter the 13 day, 6 in the morning.
 New Moon the 20 day, 7 at night.
 First Quarter the 29 day, 2 in the morning.

Sains Days	M	D	Lunar Aspects					
			☉	☿	♂	♀	♂	♀
Full Moon	19	32 15	6	△	△	△	△	△
1st aft. Trin.	20	33 27	49 8	10	♂		♂	♂
2nd aft. Trin.	21	34 11	2				♂	♂
3rd aft. Trin.	22	34 24	41				♂	♂
Powder Plot	23	35 8	♂ 47	♂		♂	♂	♂
Leonard.	24	36 23	17	♂ 20	*		♂	♂
25	25	37 8	II 6	♂			♂	♂
26	26	37 22	58				♂	♂
1st aft. Trin.	27	38 7	♂ 47	△	7	△	♂	♂
28	28	39 22	27	△ 2	△	12 9	♂	♂
Martin.	29	40 6	♂ 52	11			♂	♂
30	30	41 20	59	□	□	16	♂	♂
Brice.	1	42 4	46	18 2			♂	♂
2	2	43 18	17	*		*	♂	♂
3	3	43 1	34	* 8	16		♂	♂
22 aft. Trin.	4	44 14	38	4			♂	♂
5	5	45 27	32				♂	♂
6	6	46 10	m 12				♂	♂
Elizabeth.	7	47 22	4	♂	♂	22 22	♂	♂
8	8	48 5	♂	♂			♂	♂
9	9	49 17	23 7				♂	♂
Cicely Virg.	10	51 27	28				♂	♂
23 aft. Trin.	11	52 11	25				♂	♂
x Clement.	12	53 23	17	*	*	*	♂	♂
Katherine.	13	54 5	7	*		10 4	♂	♂
14	14	55 16	58	♂			♂	♂
15	15	56 28	53				♂	♂
Term ends.	16	57 10	x 58	□			♂	♂
17	17	58 23	18 14	△	♂	△	♂	♂
S. Andrew.	18	59 6	1				♂	♂

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PLANETS	☿	♈	♉	♊	♋	♌	♍	♎	♏
Mercury	20	12	27	41	9	14	3	38	19
Venus	21	35	27	39	12	40	8	36	13
The Planets	21	35	27	39	12	40	8	36	13
Places every	21	35	27	39	12	40	8	36	13
5th day.	16	22	12	27	38	19	38	19	11
	21	22	46	27	46	23	8	24	19
	26	23	21	28	0	26	40	28	42

1	7	34	4	26	11	0	♂	☉	♀	Cold Rain
2	7	35	4	24	11	48	♂	☉	♀	or Snow
3	7	38	4	22	12	36				and East
4	7	39	4	21	1	24				Winds,
5	7	40	4	20	2	12				sharp
6	7	42	4	18	3	0				and
7	7	43	4	17	3	4	♂	♂	♀	piercing
8	7	45	4	15	4	36				
9	7	47	4	13	5	24	Δ	♂	♀	More
10	7	49	4	11	6	12	*	♀		temperate
11	7	50	4	10	7	0	♂			Perigee
12	7	52	4	8	7	48				
13	7	53	4	8	7	36				variable
14	7	54	4	10	9	24	♂			U. variable
15	7	55	4	5	10	12				for
16	7	56	4	4	11	0				many
17	7	57	4	3	11	4	*	♂	♀	on days
18	7	58	4	2	12	36				and
19	7	59	4	1	13	24	*	♂	♀	about
20	8	60	4	0	13	12	♂	♂	♀	the
21	8	61	3	0	13	0				end
22	8	62	3	0	13	48				much
23	8	63	3	0	13	36	♂			Apog. Rain
24	8	64	3	0	13	24	♂			
25	8	65	3	0	13	12	*	♂	♀	Snow
26	8	66	3	0	13	0	♂	♂	♀	
27	8	67	3	0	13	48	Δ	♂	♀	
28	8	68	3	0	13	36	Δ	♂	♀	
29	8	69	3	0	13	24	*	♂	♀	
30	8	70	3	0	13	12				

December hath XXXI days

Full Moon the 14 day, 2 in the morning.

Last Quarter the 12 day, 6 at night.

New Moon the 20 day, 2 afternoon.

First Quarter the 28 day, 6 at night.

Saints		Days		Lunar Aspects							
1	f	Longinus.	20		19	6	△				
2	a	Blasius.	21		4	43	2				
3	a	Barbara.	22		15	50		*			
4	a	John the Baptist.	23		4	25		18			
5	c	John the Evangelist.	24		6	16		33			
6	d	S. Nicholas.	25		7	1		35			
7	c	3 Advent.	26		8	16		47			
8	c	John the Baptist.	27		9	1		51			
9	c	Joachim.	28		11	16		35			
10	a	John the Baptist.	29		12	32		57			
11	a	John the Baptist.	30		13	14		54			
12	c	Valerian.	1		14	28		28			
13	d	Lucy V.	2		16	21		40			
14	c	3 Advent.	3		17	24		34			
15	f	John the Baptist.	4		18	7		31			
16	a	John the Baptist.	5		20	69		43			
17	a	Lazarus.	5		21	21		1			
18	b	Christophorus.	7		22	14		10			
19	c	John the Baptist.	8		23	26		13			
20	d	John the Baptist.	9		25	31		12			
21	c	St. Thomas.	10		26	20		6			
22	f	John the Baptist.	11		27	12		58			
23	b	John the Baptist.	12		28	18		49			
24	a	John the Baptist.	13		29	25		42			
25	b	Christmas.	14		30	7		4			
26	c	S. Stephen.	15		32	16		50			
27	d	St. John.	16		33	2		13			
28	c	St. Innocent.	17		34	19		51			
29	c	John the Baptist.	18		35	27		53			
30	a	David.	19		37	10		22			
31	a	Silvester.	20		38	25		19			

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	h	m	h	m	h	m	h	m
Type Planets	1	23	54	28	18	0	12	3
Places every	6	24	26	28	40	3	45	7
5th day.	11	24	58	29	7	7	18	12
	16	25	28	29	39	10	53	16
	21	25	58	0	15	14	30	18
	26	26	26	0	54	18	72	0

1	8	10	3	50	11	0		
2	8	11	3	49	11	48	Good	
3	8	12	3	48	12	36	whether	
4	8	12	3	48	1	24	considering	
5	8	13	3	47	2	12	the	
6	8	13	3	47	3	0	Season.	
7	8	13	3	47	3	48	D. Penig.	
8	8	13	3	47	4	36		
9	8	14	3	46	5	24	Wholesome	
10	8	14	3	46	6	12	U. Frost.	
11	8	14	3	46	7	0	U. and	
12	8	14	3	46	7	48	clearing	
13	8	13	3	47	8	36	sharp	
14	8	13	3	47	9	24	Winds	
15	8	13	3	47	10	12	for	
16	8	13	3	47	11	0	the	
17	8	13	3	47	12	48	most	
18	8	12	3	48	1	36	part.	
19	8	12	3	48	2	24	U. U.	
20	8	11	3	49	3	12	till	
21	8	10	3	50	3	0	D. Apog. about	
22	8	9	3	51	4	48	the	
23	8	8	3	52	5	36	end,	
24	8	7	3	53	6	24		
25	8	6	3	54	7	12		
26	8	5	3	55	7	0	D. S.	
27	8	4	3	56	8	48	Rain	
28	8	4	3	56	9	36	or	
29	8	3	3	57	10	24	Snow.	
30	8	2	3	58	11	12	* ♂ ♀.	
31	8	1	3	59	11	0		

A Table of Circles Areas in Ale-Gallons, from Twelve Inches to Sixty Four, of Diameter, Calculated to every Quarter of an Inch, according to Two Hundred and Eighty Two Cubical Inches in the Gallon.

Diameter. Inch.	Area. Sq. Inches.	100		100		100	
		G.	Pts.	G.	Pts.	G.	Pts.
12	0	41	0	43	0	45	0
13	0	48	0	56	0	64	0
14	0	56	0	64	0	73	0
15	0	64	0	73	0	82	0
16	0	73	0	82	0	92	0
17	0	82	0	92	0	100	0
18	0	92	0	100	0	110	0
19	0	100	0	110	0	120	0
20	0	110	0	120	0	130	0
21	0	120	0	130	0	140	0
22	0	130	0	140	0	150	0
23	0	140	0	150	0	160	0
24	0	150	0	160	0	170	0
25	0	160	0	170	0	180	0
26	0	170	0	180	0	190	0
27	0	180	0	190	0	200	0
28	0	190	0	200	0	210	0
29	0	200	0	210	0	220	0
30	0	210	0	220	0	230	0
31	0	220	0	230	0	240	0
32	0	230	0	240	0	250	0
33	0	240	0	250	0	260	0
34	0	250	0	260	0	270	0
35	0	260	0	270	0	280	0
36	0	270	0	280	0	290	0
37	0	280	0	290	0	300	0
38	0	290	0	300	0	310	0
39	0	300	0	310	0	320	0
40	0	310	0	320	0	330	0
41	0	320	0	330	0	340	0
42	0	330	0	340	0	350	0
43	0	340	0	350	0	360	0
44	0	350	0	360	0	370	0
45	0	360	0	370	0	380	0
46	0	370	0	380	0	390	0
47	0	380	0	390	0	400	0
48	0	390	0	400	0	410	0
49	0	400	0	410	0	420	0
50	0	410	0	420	0	430	0
51	0	420	0	430	0	440	0
52	0	430	0	440	0	450	0
53	0	440	0	450	0	460	0
54	0	450	0	460	0	470	0
55	0	460	0	470	0	480	0
56	0	470	0	480	0	490	0
57	0	480	0	490	0	500	0
58	0	490	0	500	0	510	0
59	0	500	0	510	0	520	0
60	0	510	0	520	0	530	0
61	0	520	0	530	0	540	0
62	0	530	0	540	0	550	0
63	0	540	0	550	0	560	0
64	0	550	0	560	0	570	0
65	0	560	0	570	0	580	0
66	0	570	0	580	0	590	0
67	0	580	0	590	0	600	0
68	0	590	0	600	0	610	0
69	0	600	0	610	0	620	0
70	0	610	0	620	0	630	0
71	0	620	0	630	0	640	0
72	0	630	0	640	0	650	0
73	0	640	0	650	0	660	0
74	0	650	0	660	0	670	0
75	0	660	0	670	0	680	0
76	0	670	0	680	0	690	0
77	0	680	0	690	0	700	0
78	0	690	0	700	0	710	0
79	0	700	0	710	0	720	0
80	0	710	0	720	0	730	0
81	0	720	0	730	0	740	0
82	0	730	0	740	0	750	0
83	0	740	0	750	0	760	0
84	0	750	0	760	0	770	0
85	0	760	0	770	0	780	0
86	0	770	0	780	0	790	0
87	0	780	0	790	0	800	0
88	0	790	0	800	0	810	0
89	0	800	0	810	0	820	0
90	0	810	0	820	0	830	0
91	0	820	0	830	0	840	0
92	0	830	0	840	0	850	0
93	0	840	0	850	0	860	0
94	0	850	0	860	0	870	0
95	0	860	0	870	0	880	0
96	0	870	0	880	0	890	0
97	0	880	0	890	0	900	0
98	0	890	0	900	0	910	0
99	0	900	0	910	0	920	0
100	0	910	0	920	0	930	0
101	0	920	0	930	0	940	0
102	0	930	0	940	0	950	0
103	0	940	0	950	0	960	0
104	0	950	0	960	0	970	0
105	0	960	0	970	0	980	0
106	0	970	0	980	0	990	0
107	0	980	0	990	0	1000	0
108	0	990	0	1000	0	1010	0
109	0	1000	0	1010	0	1020	0
110	0	1010	0	1020	0	1030	0
111	0	1020	0	1030	0	1040	0
112	0	1030	0	1040	0	1050	0
113	0	1040	0	1050	0	1060	0
114	0	1050	0	1060	0	1070	0
115	0	1060	0	1070	0	1080	0
116	0	1070	0	1080	0	1090	0
117	0	1080	0	1090	0	1100	0
118	0	1090	0	1100	0	1110	0
119	0	1100	0	1110	0	1120	0
120	0	1110	0	1120	0	1130	0
121	0	1120	0	1130	0	1140	0
122	0	1130	0	1140	0	1150	0
123	0	1140	0	1150	0	1160	0
124	0	1150	0	1160	0	1170	0
125	0	1160	0	1170	0	1180	0
126	0	1170	0	1180	0	1190	0
127	0	1180	0	1190	0	1200	0
128	0	1190	0	1200	0	1210	0
129	0	1200	0	1210	0	1220	0
130	0	1210	0	1220	0	1230	0
131	0	1220	0	1230	0	1240	0
132	0	1230	0	1240	0	1250	0
133	0	1240	0	1250	0	1260	0
134	0	1250	0	1260	0	1270	0
135	0	1260	0	1270	0	1280	0
136	0	1270	0	1280	0	1290	0
137	0	1280	0	1290	0	1300	0
138	0	1290	0	1300	0	1310	0
139	0	1300	0	1310	0	1320	0
140	0	1310	0	1320	0	1330	0
141	0	1320	0	1330	0	1340	0
142	0	1330	0	1340	0	1350	0
143	0	1340	0	1350	0	1360	0
144	0	1350	0	1360	0	1370	0
145	0	1360	0	1370	0	1380	0
146	0	1370	0	1380	0	1390	0
147	0	1380	0	1390	0	1400	0
148	0	1390	0	1400	0	1410	0
149	0	1400	0	1410	0	1420	0
150	0	1410	0	1420	0	1430	0
151	0	1420	0	1430	0	1440	0
152	0	1430	0	1440	0	1450	0
153	0	1440	0	1450	0	1460	0
154	0	1450	0	1460	0	1470	0
155	0	1460	0	1470	0	1480	0
156	0	1470	0	1480	0	1490	0
157	0	1480	0	1490	0	1500	0
158	0	1490	0	1500	0	1510	0
159	0	1500	0	1510	0	1520	0
160	0	1510	0	1520	0	1530	0
161	0	1520	0	1530	0	1540	0
162	0	1530	0	1540	0	1550	0
163	0	1540	0	1550	0	1560	0
164	0	1550	0	1560	0	1570	0
165	0	1560	0	1570	0	1580	0
166	0	1570	0	1580	0	1590	0
167	0	1580	0	1590	0	1600	0
168	0	1590	0	1600	0	1610	0
169	0	1600	0	1610	0	1620	0
170	0	1610	0	1620	0	1630	0
171	0	1620	0	1630	0	1640	0
172	0	1630	0	1640	0	1650	0
173	0	1640	0	1650	0	1660	0
174	0	1650	0	1660	0	1670	0
175	0	1660	0	1670	0	1680	0
176	0	1670	0	1680	0	1690	0
177	0	1680	0	1690	0	1700	0
178	0	1690	0	1700	0	1710	0
179	0	1700	0	1710	0	1720	0
180	0	1710	0	1720	0	1730	0
181	0	1720	0	1730	0	1740	0
182	0	1730	0	1740	0	1750	0
183	0	1740	0	1750	0	1760	0
184	0	1750	0	1760	0	1770	0
185	0	1760	0	1770	0	1780	0
186	0	1770	0	1780	0	1790	0
187	0	1780	0	1790	0	1800	0
188	0	1790	0	1800	0	1810	0
189	0	1800	0	1810	0	1820	0
190	0	1810	0	1820	0	1830	0
191	0	1820	0	1830	0	1840	0
192	0	1830	0	1840	0	1850	0
193	0	1840	0	1850	0	1860	0
194	0	1850	0	1860	0	1870	0
195	0	1860	0	1870	0	1880	0
196	0	1870	0	1880	0	1890	0
197	0	1880	0	1890	0	1900	0
198	0	1890	0	1900	0	1910	0
199	0	1900	0	1910	0	1920	0
200	0	1910	0	1920	0	1930	0
201	0	1920	0	1930	0	1940	0
202	0	1930	0	1940	0	1950	0
203	0	1940</					

Dia	Area	25	5	75
31	2 67	2 71	2 76	2 80
32	2 85	2 89	2 94	2 98
33	3 03	3 07	3 12	3 17
34	3 21	3 26	3 31	3 36
35	3 40	3 45	3 50	3 55
36	3 58	3 65	3 71	3 76
37	4 17	4 23	4 29	4 34
38	4 36	4 42	4 48	4 53
39	4 55	5 01	5 07	5 12
40	5 14	5 20	5 26	5 31
41	5 33	5 39	5 45	5 50
42	5 52	5 58	6 04	6 09
43	6 11	6 17	6 23	6 28
44	6 30	6 36	6 42	6 47
45	6 49	6 55	7 01	7 06
46	7 08	7 14	7 20	7 25
47	7 27	7 33	7 39	7 44
48	7 46	7 52	7 58	8 03
49	8 05	8 11	8 17	8 22
50	8 24	8 30	8 36	8 41
51	8 43	8 49	8 55	9 00
52	9 02	9 08	9 14	9 19
53	9 21	9 27	9 33	9 38
54	9 40	9 46	9 52	9 57
55	10 00	10 06	10 12	10 17
56	10 19	10 25	10 31	10 36
57	10 38	10 44	10 50	10 55
58	10 57	11 03	11 09	11 14
59	11 16	11 22	11 28	11 33
60	11 35	11 41	11 47	11 52
61	11 54	12 00	12 06	12 11
62	12 10	12 16	12 22	12 27
63	12 29	12 35	12 41	12 46
64	12 48	12 54	13 00	13 05

A Table of
Inches
and Eighth
Parts

Dia. Inch

C

Tha

*The Use of the Table of Circles Areas, for the
Gageing of Ale or Worts in any Tub or round
Vessel.*

IF the Vessel be a Cillinder against the Inches
of its Diameter, you have the *Area* at one
Inch deep, which multiply by the number of
wet Inches gives the content.

If it differ from a Cillinder, multiply the
difference of Diameters by $\frac{1}{2}$ and that product
add to the lesser Diameter, gives you the
mean Diameter, with which Enter the Table
and find the *Area*, and work as above directed.

Example.

There is a Vessel whose greater Diameter is
36, and the Lesser 29, the Inches wet 17, I
demand the Content of the Liquor in Ale Gal-
lons.

The difference of Diameters 7

I multiply by $\frac{1}{2}$ $\frac{7}{10}$

and the product is 4:9 which I add
to the lesser Diameter 29

and it gives me the mean 33:9

Against

Against which I find in the Table ———

Gall.

2	19	which I multiply by the wet
17		Inches, cutting off from the Pro-
<hr/>		duct two Figures toward the Right
1533		Hand for the Fractions, and it
219		produceth thirty seven Gallons
<hr/>		$\frac{21}{100}$ Parts, the true Content of the
37	23	Liquor.

*The Use of Table in Gageing of Wine
or Ale Cask.*

TAKE the *Area* out of the Table against the Diameter at the bung, and set that down twice, and the *Area* against the Diameter at the Head, and set that down once, add those three together, and it gives you the tripled *Area* of a mean Circle, which multiplied by $\frac{1}{3}$ of the length produces the Content.

Example.

A Casks bung diameter ——— 22 5
each head 18 5 and the length ——— 39

Against 22 5 in the Table I find —	1 41
which I set down twice	<hr/> 1 41
Against 18 5 I find	<hr/> 0 95
	<hr/>

The tripled Area of a mean ——— 3 77
multiplied by $\frac{1}{3}$ of the length ——— 13

it gives the Content ————— 1131
377

49 Gall. fere — — 49 01

To know the content in Wine Gallons, multiply the content in Ale Gallons by 1 23 cutting off the fractions, and it shews the content in Wine or Oyl measure.

Example.

The Content found in Alc measure

Multiplicator 49 OF
I 22 for Wine

9802

9802

4901

Content 59 7922 59 Gall: 3 quart.

A Table

*A Table to reduce Gallons into Barrels
and Firkins.*

Hons.	Beer			Ale			lons.	Gal.	Beer			Ale		
	B.	F.	G.	B.	F.	G.			B.	F.	G.	B.	F.	G.
8	0	0	8	0	1	0	70	1	3	7	2	0	6	
9	0	1	0	0	1	1	80	2	0	8	2	2	0	
10	0	1	1	0	1	2	90	2	2	0	2	3	2	
11	0	1	2	0	1	3	100	2	3	1	3	0	4	
12	0	1	3	0	1	4	200	5	2	2	6	1	0	
13	0	1	4	0	1	5	300	8	1	3	9	1	4	
14	0	1	5	0	1	6	400	11	0	4	12	2	0	
15	0	1	6	0	1	7	500	13	3	5	15	2	4	
16	0	1	7	0	2	0	600	16	2	6	18	3	0	
17	0	1	8	0	2	1	700	19	1	7	21	3	4	
18	0	2	0	0	2	2	800	22	0	8	25	0	0	
19	0	2	1	0	2	3	900	25	0	0	28	0	4	
20	0	2	2	0	2	4	1000	27	3	1	31	1	0	
30	0	3	3	0	3	6	2000	55	2	2	62	2	0	
40	1	0	4	1	1	0	3000	83	1	3	93	3	0	
50	1	1	5	1	2	2	4000	111	0	4	125	0	0	
60	1	2	6	1	3	4	5000	138	2	5	156	1	0	

A Table

*A Table of Allowances for Common Brewers of
3 in 23 for Beer, and 2 in 22 for Ale, at
2 s. 6 d. per Barrel Strong, and 6 d. the Bar-
rel Small in Net Money, from One Firkin to
1000 Barrels.*

Barrels.	Strong Beer.				Ale.				Small Beer			
	l.	s.	d.	q.	l.	s.	d.	q.	l.	s.	d.	q.
1	0	0	6	2	0	0	6	3	0	0	1	1
2	0	1	1	0	0	1	1	2	0	0	2	2
3	0	1	7	2	0	1	8	2	0	0	3	3
4	0	2	2	0	0	2	3	1	0	0	5	1
5	0	4	4	1	0	4	6	2	0	0	10	2
6	0	6	6	1	0	6	9	3	0	1	3	3
7	0	8	8	1	0	9	1	0	0	1	8	3
8	0	10	10	2	0	11	4	1	0	2	2	0
9	0	13	0	2	0	13	7	2	0	2	7	1
10	0	15	2	2	0	15	11	0	0	3	0	2
11	0	17	4	3	0	18	2	1	0	3	5	3
12	0	19	6	3	1	0	5	2	0	3	11	0
13	1	1	8	3	1	2	8	3	0	4	4	1
14	1	3	11	0	1	5	0	0	0	4	9	1
15	1	6	1	0	1	7	3	1	0	5	2	2
16	1	8	3	0	1	9	6	2	0	5	7	3
17	1	10	5	1	1	11	9	3	0	6	1	0
18	1	12	7	1	1	14	1	0	0	6	6	1
19	1	14	9	2	1	16	4	1	0	6	11	2

Barrels	Strong Beer.				Ale.				Small Beer.			
	l.	s.	d.	q.	l.	s.	d.	q.	l.	s.	d.	q.
17	1	16	11	2	1	18	7	2	0	7	4	3
18	1	19	1	2	2	0	10	3	0	7	10	0
19	2	1	3	2	2	3	2	0	0	8	3	0
20	2	3	5	3	2	5	5	2	0	8	8	1
21	2	5	7	3	2	7	8	3	0	9	1	2
22	2	7	9	3	2	10	0	0	0	9	6	3
23	2	10	0	0	2	12	3	1	0	10	0	0
24	2	12	2	0	2	14	6	2	0	10	5	
25	2	14	4	1	2	16	9	3	0	10	10	1
26	2	16	6	1	2	19	0	0	0	11	3	2
27	2	18	8	1	3	1	4	1	0	11	8	3
28	3	00	10	2	3	2	7	2	0	12	2	0
29	3	3	0	2	3	5	10	3	0	12	7	1
30	3	5	2	2	3	8	2	0	0	13	0	2
40	4	6	11	2	4	10	10	3	0	17	4	3
50	5	8	8	1	5	13	7	2	1	1	8	3
60	6	10	5	1	6	16	4	1	1	6	1	0
70	7	12	2	0	7	19	1	0	1	10	5	1
80	8	13	11	0	9	1	9	3	1	14	9	1
90	9	15	7	2	10	4	6	2	1	19	1	2
100	10	17	4	3	11	7	3	1	2	3	5	3
200	21	14	9	2	22	14	6	2	4	6	11	2
300	32	12	2	0	34	1	9	3	6	10	5	1
400	43	9	6	3	45	9	1	0	8	13	11	0
500	54	6	11	2	56	16	4	1	10	17	4	3
600	65	4	4	0	68	3	7	2	13	0	10	2
700	76	1	8	3	79	10	10	3	15	4	4	1
800	86	19	1	2	90	18	2	1	17	7	10	0
900	97	16	6	1	102	5	5	2	19	11	3	3
1000	108	13	11	0	113	12	8	3	21	14	9	2

q. 1 1 1 1 1 1
 d. 8 8 4 8
 s. 18 1 11
 l. 2 3 0
 27 Ale
 27 Small

This Table needs no Explanation, for you see 27 Barrels Strong Beer is

Of

Of the Four Quarters of the Year 1690.

Of the Spring.

*Omnia cum vireant, tunc est nova temporis
Ætas, sic Annus per Ver incipiendus erit.*

THE beginning of the year being of most People in all Ages accounted about the *Vernal Equinox*, at which time some do suppose the World had its Birth, or first beginning; which whether true or false, I shall not now dispute: but shall begin here also, it being the most beautiful and pleasant time of all the year, and most proper for the Generation of things, and is called the Spring, or *Ver*,

à virendo quia tunc omnia vireant.

because all things grow green and flourish. It takes its beginning with the Suns entrance into the first scruple of the *Equinoctial Sign Aries*, which happens this year by our Tables in *Astronomia Anglicana*, *March* the 9th, 13 hours 15 minutes after Noon; or by our Vulgar Account *March* the 10th, at 50 minutes past one in the Morning, at which time 29 degrees.

A Table

A Table of Allowances for Common Brewers of 2¹/₂ in 23, at three Shillings and three pence the Barrel for strong Beer, and nine pence for small, according to the Act for additional duty of Excise on Beer and Ale, from $\frac{1}{4}$ of a Barrel, to a 1000 Barrels Strong and Small.

Strong Beer or Ale.	Strong Beer or Ale.	Small Beer or Ale.
Bar. l. s. d. f. 10th	Bar. l. s. d. f. 10	Barr. l. s. d. f. 10th
10 0 8 2 7	300 43 9 0	8 0 5 4 0 7
10 1 5 1 5	400 57 18 8	9 0 6 0 0 8
10 2 2 0 2	500 72 8 4	10 0 6 8 0 8
10 2 10 3 0	600 86 18 0	20 0 13 4 1 6
20 5 9 2 0	700 101 7 8	30 1 0 0 2 4
30 8 8 1 1	800 115 17 4	40 1 6 8 3 3
40 11 7 0 1	900 130 7 0	50 1 13 5
50 14 5 3 2	1000 144 16 8	60 2 0 1 0 8
60 17 4 2 2	Small Beer or Ale.	70 2 6 9 1 6
71 0 3 1 3		80 2 13 5 2 4
81 3 2 0 3	Bar. l. s. d. f. 10.	90 3 0 1 3 2
91 6 0 3 3		100 3 6 10—
101 8 11 2 4	1 0 0 2 0 0	200 6 13 8—
20 2 17 11 0 8	2 0 0 4 0 0	300 10 0 6—
30 4 6 10 3 2	3 0 0 6 0 0	400 13 7 4—
40 5 15 10 1 6	4 0 2 8 0 3	500 16 4 2—
50 7 4 10 : :	5 0 3 4 0 4	600 20 1 0—
60 8 13 9 4 4	6 0 4 0 0 5	700 23 7 10—
70 10 2 0 0 8	7 0 4 8 0 6	800 26 14 8—
80 11 11 8 3 2		900 30 1 6—
90 13 0 8 1 6		1000 33 8 4—
100 14 9 8 : :		
200 28 19 4 : :		

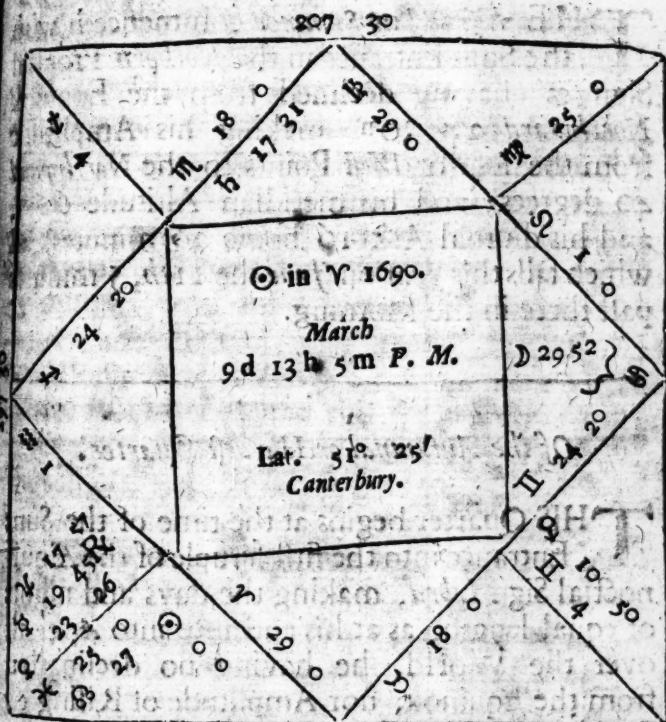
Of Libra Culminates, and 23 degrees, and 56 minutes of Sagittarius ascends in the Eastern semitur, as may be seen by the following Calculation.

	Ex Astr. Ang.	s	°	'	''
Lo. ☉ ab Æquinox	_____	0	0	0	0
Precession of the Æquinox sub.	_____	0	24	47	20
Long. ☉ à I * γ	_____	11	1	12	40
mean Anomaly correspondent	_____	8	20	50	40
1681 gives	_____ sub.	6	13	33	20
	Remains	2	7	17	20
years 9 gives	_____	11	20	42	4
Rem.	_____	2	7	35	22
March	_____	1	28	9	4
Rem.	_____	0	9	26	18
days 9	_____		8	52	14
Rem.	_____		0	34	4
Hours 13	_____			32	2
Mm. 50	_____				2 2

for which time if we erect the figure,
 The Right Ascension of the Sun is 0000^d 000^m
 The Right Ascension of Time — 207 30
 which is also the Right Ascension of the mid.
 Heaven. The Oblige Ascension of the Ascendant is 297 30.

The

The Scheam followeth.



This Quarter continues till the Sun hath Traverfed by his natural Motion, the three Vernal Signs, *Aries*, *Taurus*, and *Gemini*, and is of its proper Nature Hot and Moist. The Diseases of this Quarter are chiefly *Small Pox*, *putrid Fevers*, *Plurifies*, *Peripneumonies*, &c.

Of

Of the Summer Quarter.

THE *Festival* or *Summer* commenceth with the Suns Entrance in the *Nothern* Tropical Sign *♋*, having declined from the Equinox *Northward* 23^d 30^m, making his Amplitude from the *East* or *West* Points to the *Northward* 40 degrees; and his meridian Altitude 62 3, and his diurnal Ark 16 hours 26 minutes, all which falls this year on *June* the 11th, 5 minutes past three in the Morning.

Of the Autumnal or Harvest Quarter.

THIS Quarter begins at the time of the Suns Entrance into the first scruple of the Equinoctial Sign *Libra*, making the days and nights of equal length, as at his entrance into *Aries* all over the World, he having no declination from the Equinox, nor Amplitude of Rising or Setting; his Meridian Altitude being the Complement of the Poles Elevation, viz. 38 33 of *Camerbury*, it commenceth this year *September* the 12th, 6 hours 48 minutes post Meridiem, or Afternoon.

91

Of the Winter Quarter;

THE Hyemnal or Winter Quarter we account Commences upon the Suns ingress into the first scruple of the Tropical Sign *Capricorn*, he then declining *South* from the *Aequinox* 23 degrees, 30 minutes, and hath 40 degrees of Amplitude of Rising or Setting, from the true *East* or *West* points of the *Horizon Southward*; his Meridian Altitude then being but 15 degrees 5 minutes, and his Diurnal Ark seven hours thirty four minutes, making the shortest days and longest nights in all our *Northern Hemisphere*: This happens this year *December* the *Eleventh*, forty minutes past six in the *Morning*.

Felix qui putuit rerum cognoscere Causas.

F I N I S.

ADVERTISEMENT.

THERE is lately published by the Author, *Astronomia Angloana*; Containing an Absolute and Entire piece of *Astronomy*: in which is succinctly handled the Trigonometrical part, particularly applyed in all Questions tending to diurnal motion: with the Doctrine of Parallaxes, and especially respecting the main Doctrine of the second Motions of the Luminaries, and other Planets; with their Affections, as Eclipses, &c. composed according to the best Observations, and grounded upon the most Rational Hypothesis yet constituted; with new facile and most exact Tables, whereby the Planets Places, both in Longitude and Latitude, for any time past, present, or to come, is speedily attained, by Inspection only; with Precepts for Calculating Eclipses, more easie, expedite, and perspicuous, than any heretofore extant.

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